

The Journal of

Membrane Biology

An international journal
for studies on the structure, function and genesis
of biomembranes

Volume 89 1986

Editorial Board

W.R. Loewenstein, Miami, Editor-in-Chief

P.F. Baker, Kings, London

G. Blobel, Rockefeller

D. Branton, Harvard

P. Cuatrecasas,

Burroughs Wellcome

J.M. Diamond, California, L.A.

I.S. Edelman, Columbia

D. Engelman, Yale

S. Fleischer, Vanderbilt

J.G. Forte, California, Berkeley

G. Giebisch, Yale

G. Guidotti, Harvard

J. Handler, N.I.H.

D.A. Haydon, Cambridge

L. Heppel, Cornell

J.F. Hoffman, Yale

W.L. Hubbell, California, L.A.

R.B. Kelly, California, S.F.

A. Klug, Cambridge

P. Läuger, Konstanz

A. Leaf, Harvard

A.L. Lehninger, Johns Hopkins

S.E. Luria, MIT

E.A.C. MacRobbie, Cambridge

V.T. Marchesi, Yale

H.M. McConnell, Stanford

S. McLaughlin, SUNY, Stony Brook

C. Miller, Brandeis

Y.A. Ovchinnikov,
USSR Acad. Sc. Moscow

G.E. Palade, Yale

D. Papahadjopoulos, California, S.F.

E. Racker, Cornell

A. Rothstein, Toronto

S.G. Schultz, Texas

S.J. Singer, California, S.D.

C.L. Slayman, Yale

K.R. Spring, N.I.H.

C.F. Stevens, Yale

W. Stoeckenius, California, S.F.

D. Urry, Alabama

H.H. Ussing, Copenhagen

D.J. Fritts, Assistant to the Editor



Springer-Verlag New York Inc.

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproductions, also in microform, is transferred to the publisher.

The use of registered names, trademarks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

Printed in West Germany

© 1986 by Springer-Verlag New York Inc.



Springer-Verlag New York Inc.

Author Index

Bannai, S., Tateishi, N.: Role of Membrane Transport in Metabolism and Function of Glutathione in Mammals (<i>Topical Review</i>)	1
Barlet, C., <i>see</i> Ben Abdelkhalek, M., et al.	225
Beilby, M.J.: Potassium Channels and Different States of <i>Chara</i> Plasmalemma	241
Ben Abdelkhalek, M., Barlet, C., Doucet, A.: Presence of an Extramitochondrial Anion-Stimulated ATPase in the Rabbit Kidney: Localization Along the Nephron and Effect of Corticosteroids	225
Benga, Gh., Borza, V., Popescu, O., Pop, V.I., Mureşan, A.: Water Exchange through Erythrocyte Membranes: Nuclear Magnetic Resonance Studies on Resealed Ghosts Compared to Human Erythrocytes	127
Borza, V., <i>see</i> Benga, Gh., et al.	127
Brunt, J. van, <i>see</i> Caldwell, J.H., et al.	85
Caldwell, J.H., Brunt, J. van, Harold, F.M.: Calcium-Dependent Anion Channel in the Water Mold, <i>Blas-tocladia emersonii</i>	85
Castaing, M., Morel, F., Lehn, J.-M.: Transport of Alkali Cations Through Thin Lipid Membranes by (222)C ₁₀ -Cryptand, an Ionizable Mobile Carrier	251
Clark, R.B., <i>see</i> Moore, L.E., et al.	131
Cooper, S., <i>see</i> Masur, S.K., et al.	39
Dix, J.A., Verkman, A.S., Solomon, A.K.: Binding of Chloride and a Disulfonic Stilbene Transport Inhibitor to Red Cell Band 3	211
Doucet, A., <i>see</i> Ben Abdelkhalek, M., et al.	225
Feracci, H., <i>see</i> Moktari, S., et al.	53
Findlay, G.P., <i>see</i> Tyerman, S.D., et al.	139, 153
Fröbe, U., <i>see</i> Kohlhardt, M., et al.	163
Furuya, K., Hirano, H., Nishiyama, F., Kukita, F., Yamagishi, S.: Intracellular Binding of Cationized Ferritin Prolongs the Time Course of Sodium Channel Inactivation in Squid Giant Axons	75
Gäggeler, H.P., <i>see</i> Truscello, A., et al.	173
Giles, W.R., <i>see</i> Moore, L.E., et al.	131
Gorvel, J.-P., <i>see</i> Moktari, S., et al.	53
Gronowicz, G., <i>see</i> Masur, S.K., et al.	39
Harold, F.M., <i>see</i> Caldwell, J.H., et al.	85
Henderson, G.B., Zevely, E.M.: Properties of an Anion/H ⁺ Cotransport System in L1210 Cells that Utilizes Phthalate as a Nonphysiological Substrate	99
Herzig, J.W., <i>see</i> Kohlhardt, M., et al.	163
Hirano, H., <i>see</i> Furuya, K., et al.	75
Hokin, L.E., <i>see</i> Sekar, M.C.	193
Horn, L.W.: Measurements of Amino Acid Transport in Internally Dialyzed Giant Axons	185
Ichikawa, S., <i>see</i> Sakai, Y., et al.	65
Isobe, A., <i>see</i> Sakai, Y., et al.	65
Kimmich, G.A., <i>see</i> Restrepo, D.	269
Kohlhardt, M., Fröbe, U., Herzig, J.W.: Modification of Single Cardiac Na ⁺ Channels by DPI 201-106	163
Krulwich, T.A.: Bioenergetics of Alkalophilic Bacteria (<i>Topical Review</i>)	113
Kukita, F., <i>see</i> Furuya, K., et al.	75
Lehn, J.-M., <i>see</i> Castaing, M., et al.	251
Maroux, S., <i>see</i> Moktari, S., et al.	53
Massardo, S., <i>see</i> Masur, S.K., et al.	39
Masur, S.K., Cooper, S., Massardo, S., Gronowicz, G., Rubin, M.S.: Isolation and Characterization of Granules of the Toad Bladder	39
Mishal, Z., <i>see</i> Moktari, S., et al.	53
Moktari, S., Feracci, H., Gorvel, J.-P., Mishal, Z., Rigal, A., Maroux, S.: Subcellular Fractionation and Subcellular Localization of Aminopeptidase N in the Rabbit Enterocytes	53
Moore, L.E., Clark, R.B., Shibata, E.F., Giles, W.R.: Comparison of Steady-State Electrophysiological Properties of Isolated Cells from Bullfrog Atrium and Sinus Venosus	131
Morel, F., <i>see</i> Castaing, M., et al.	251
Mureşan, A., <i>see</i> Benga, Gh., et al.	127
Nishiyama, F., <i>see</i> Furuya, K., et al.	75
Paterson, G.J., <i>see</i> Tyerman, S.D., et al.	139
Pop, V., <i>see</i> Benga, Gh., et al.	127
Popescu, O., <i>see</i> Benga, Gh., et al.	127
Restrepo, D., Kimmich, G.A.: Phlorizin Binding to Isolated Enterocytes: Membrane Potential and Sodium Dependence	131
Rigal, A., <i>see</i> Moktari, S., et al.	53
Rossier, B.C., <i>see</i> Truscello, A., et al.	173
Rubin, M.S., <i>see</i> Masur, S.K., et al.	39
Sakai, Y., Isobe, A., Ichikawa, S.: Demarcation of Ca ²⁺ Transport Processes in Guinea Pig Stomach Smooth Muscle	65
Sekar, M.C., Hokin, L.E.: The Role of Phosphoinositides in Signal Transduction (<i>Topical Review</i>)	193
Shibata, E.F., <i>see</i> Moore, L.E., et al.	131
Sokolik, A.I., Yurin, V.M.: Potassium Channels in Plasmalemma of <i>Nitella</i> Cells at Rest	9
Solomon, A.K., <i>see</i> Dix, J.A., et al.	211
Stark, G., Strässle, M., Takácz, Z.: Temperature-Jump and Voltage-Jump Experiments at Planar Lipid Membranes Support an Aggregational (Micellar) Model of the Gramicidin A Ion Channel	23
Strässle, M., <i>see</i> Stark, G., et al.	23
Takácz, Z., <i>see</i> Stark, G., et al.	23
Tateishi, N., <i>see</i> Bannai, S.	1
Trapane, T.L., <i>see</i> Urry, D.W., et al.	107
Truscello, A., Gäggeler, H.P., Rossier, B.C.: Thyroid Hormone Antagonizes an Aldosterone-Induced Protein: A Candidate Mediator for the Late Mineralocorticoid Response	173
Tyerman, S.D., Findlay, G.P., Paterson, G.J.: Inward Membrane Current in <i>Chara inflata</i> : I. A Voltage- and Time-Dependent Cl ⁻ Component	139
Tyerman, S.D., Findlay, G.P., Paterson, G.J.: Inward Membrane Current in <i>Chara inflata</i> : II. Effects of pH, Cl ⁻ -Channel Blockers and NH ₄ ⁺ , and Significance for the Hyperpolarized State	153
Urry, D.W., Trapane, T.L., Venkatachalam, C.M.: Potassium-39 NMR of K ⁺ Interaction with the Gramicidin Channel and NMR-Derived Conductance Ratios for Na ⁺ , K ⁺ and Rb ⁺	107
Venkatachalam, C.M., <i>see</i> Urry, D.W., et al.	107
Verkman, A.S., <i>see</i> Dix, J.A., et al.	211
Yamagishi, S., <i>see</i> Furuya, K., et al.	75
Yurin, V.M., <i>see</i> Sokolik, A.I.	9
Zevely, E.M., <i>see</i> Henderson, G.B.	99

